

IN THE CLAIMS

Please cancel claims 29, 32 and 45, and amend claims 14, 19-20, 24, 30, 34, 35, 37, 41, 44 and 50 as follows.

14. (Amended) A method for the production of an arachidonic acid-containing oil, said oil containing triglycerides wherein at least 25% of the fatty acid residues are ARA, and the amount of EPA residues in the oil is no more than one-fifth the amount of ARA residues, comprising

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- (a) cultivating *Mortierella sp.* in an aerated fermentor containing culture medium having a carbon source in an amount equivalent to at least 80 g/L glucose and a nitrogen source in an amount equivalent to at least 15 g/L yeast extract;
 - (b) maintaining the pH between 5 and 6 at the beginning of the cultivation;
 - (c) maintaining the pH between 7 and 7.5 at the end of the cultivation; and
 - (d) harvesting biomass from the fermentor and recovering said arachidonic acid-containing oil from said biomass.

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19. (Twice Amended) [An] A fungal triglyceride oil comprising at least about [10%] 30% ARA in the triglyceride and no more than one tenth as much EPA as ARA.

20. (Twice Amended) [An] A fungal triglyceride oil according to claim 19 comprising at least [10%] 30% ARA in the triglyceride and essentially no EPA.

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24. (Twice Amended) A method of providing triglyceride containing ARA to an infant formula which comprises adding [an] a fungal oil comprising at least [10%] 30% ARA in the form of triglyceride and comprising no more than one fifth as much EPA as ARA to

^{B³ cont'd} an infant formula in an amount sufficient to provide an ARA content which corresponds to the amount of ARA in human breast milk.

^{B⁴} ~~29-30.~~ (Twice Amended) Infant formula comprising triglyceride containing ARA in an amount comparable to the amount in human breast milk wherein the ARA is provided by adding to infant formula a sufficient amount of [an] a fungal oil comprising triglyceride containing at least [10%] 30% ARA and no more than one fifth as much EPA as ARA.

^{B⁵} ~~32-34.~~ (Twice Amended) [An] A fungal oil [according to claim 19], wherein the oil is from *Pythium insidiosum* and comprises at least about 10% ARA and no more than one tenth as much EPA as ARA.

^{B⁶} ~~33-35.~~ (Twice Amended) [An] A fungal oil according to claim ³²~~34~~ comprising at least 10% ARA and essentially no EPA.

^{B⁶} ~~35-37.~~ (Twice Amended) A method of providing ARA to an infant formula which comprises adding [an] a fungal oil from *Pythium insidiosum* comprising at least 10% ARA and comprising no more than one fifth as much EPA as ARA to an infant formula in an amount sufficient to provide an ARA content which corresponds to the amount of ARA in human breast milk.

^{B⁷} ¹ ~~39-41.~~ (Twice Amended) Infant formula comprising ARA in an amount comparable to the amount in human breast milk wherein the ARA is provided by adding to infant formula a sufficient amount of [an] a fungal oil from *Pythium insidiosum* comprising at least 10% ARA and no more than one fifth as much EPA as ARA.

^{B⁸} ~~42-44.~~ (Twice Amended) A method of providing a human with supplemental arachidonic acid (ARA) comprising administering to a human in need of supplemental ARA

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a composition containing fungal oil containing ARA in the form of triglyceride, said oil containing at least [10%] 30% ARA and no more than one fifth as much eicosapentaenoic acid(EPA) as ARA, wherein said oil is present in an amount effective to provide supplemental ARA to said human.

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47 50. (Twice Amended) A cosmetic composition comprising fungal oil containing ARA in the form of triglyceride, said oil containing at least [10%] 30% ARA and no more than one fifth as much eicosapentaenoic acid (EPA) as ARA, wherein said oil is present in said composition in an amount effective to assist in maintaining skin tone when said composition is applied topically.

REMARKS

The Interview

Applicant would like to thank Examiner Lankford for the courtesy of a telephone Interview on August 6, 1996. In the Interview, Examiner Lankford indicated that the pending claims would be allowable if claims 19, 20, 24, 30, 44, and 50 were amended to recite oil containing at least 30% ARA, and Applicant agreed to the amendments. In a subsequent telephone Interview on September 30, 1996, Examiner Lankford indicated that an Office Action would be issued indicating allowability of the claims if amended. The present Amendment makes the requested changes.

The Amendments

Claims 24, 30, 34, 44 and 50 are amended herein to recite a fungal oil containing at least 30% ARA. Such an oil was recited in original claim 21, and throughout the specification, *inter alia*, on pages 18-20.